AB The invention is directed to carboxylic acids and isosteres of heterocyclic ring compds. I [X, Y, Z = C, O, S, N (provided that not all X, Y, Z are C); n = 1-3; A = RlC(O)C(O), RlC(O)C(S), RlSO2, (E)(Rl)NC(O); Rl, E = H, Cl-9 (un)branched alkyl or alkenyl, aryl, etc.; D = Cl-10 (un)branched alkyl, ethylene, butylene; R2 = carboxylic acid or carboxylic acid isostere] which have multiple heteroatoms within the heterocyclic ring, derivs. containing N-linked diketos, sulfonamides, ureas and carbamates attached thereto, their preparation and use for treating neurol. disorders including phys. damaged nerves and neurodegenerative diseases, as well as for treating alopecia and promoting hair growth.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:784076 CAPLUS

DOCUMENT NUMBER:

132:22867

TITLE:

Preparation of urea and carbamate derivatives of N-heterocyclic carboxylic acids and carboxylic acid isosteres for the treatment of neurodegenerative

diseases and alopecia

INVENTOR (S):

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Steiner, Joseph P.

PATENT ASSIGNEE(S):

Guilford Pharmaceuticals Inc., USA; Amgen, Inc.

SOURCE:

PCT Int. Appl., 102 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

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FAMILY ACC. NUM. COUNT: 1

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PRIORITY APPLN. INFO.:			US 1998-87844P	P	19980603
		•	US 1998-204235	A3	19981203
			WO 1998-US25570	W	19981203

OTHER SOURCE(S):

MARPAT 132:22867

IT 251574-10-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of urea and carbamate derivs. of N-heterocyclic carboxylic acids and carboxylic acid isosteres for the treatment of

neurodegenerative diseases and alopecia)

RN 251574-10-4 CAPLUS

CN 1-Pyrrolidinecarboxamide, 2-cyano-N-(1-phenylethyl)- (9CI) (CA INDEX NAME)

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The title urea or carbamate derivs. I [n = 1-3; R1 and A = H, alkyl alkenyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl; D = bond, alkyl, alkenyl, alkynyl; R2 = CO2H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, carboxylic acid isosteres, e.g. SO3H, cyano, sulfamoyl, carbamoyl, etc., (un) substituted by R3; R3 = H, HO, halo, haloalkyl, thiocarbonyl, alkoxy, alkenyloxy, aryloxy, cyano, nitro, imino, alkylthio, etc., and CO2R4; R4 = H, alkyl, alkenyl) and their pharmaceutically acceptable salts, esters, etc. were prepared and their pharmaceutical formulations described for use for treating neurol. disorders including phys. damaged nerves and neurodegenerative diseases and for treating alopecia and promoting hair growth. Thus, reaction of proline Me ester hydrochloride with cyclohexyl isocyanate and hydrolysis of the resulting ester gave the (cyclohexylcarbamoyl) pyrrolidinecarboxylic acid II.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT